

Table of Contents

Acknowledgements	vi
Acronyms	vii
Glossary	x
Chapter 1: Introduction	1
The 'mitigation' <i>versus</i> 'adaptation' debate in climate change.....	1
Democratic decentralisation and climate change adaptation.....	3
Climate change adaptation as a developmental issue	5
Local government to climate change adaptation.....	6
Addressing vulnerability to climate change requires extra efforts	9
Purpose of the research and key questions.....	11
Overview.....	12
Chapter-II: Adaptation concepts	16
Defining adaptation.....	16
Adaptation – an old concept.....	17
Adaptation in rural areas <i>versus</i> adaptation in urban areas.....	18
Adaptation and development.....	19
Mitigation in adaptation	21
Integration of adaptation in rural development planning.....	22
Constraints in integration of adaptation in development planning	23
Construction of “the risk” of climate change	24
Uncertainty of climate change	25

Combining "risk" & "uncertainty" in adaptation decision making	26
Integrating 'resilience' in climate adaptation policy	28
Methodology of data collection.....	29
Conclusions	33
Chapter-III: Climate change vulnerabilities in India	34
Introduction.....	34
Recurring disasters in India, and the lessons learnt	36
Climate change and Indian agriculture.....	39
River and inland flooding and extreme rainfall events in India	41
Impact of climate change on forest ecosystems in India	42
India's RUrban transformation, 2000–2050	44
Globalisation and climate change vulnerability in India.....	45
Conclusions	47
CHAPTER-IV: Climate vulnerabilities & learnings from disasters in ORISSA.....	48
Socio-economic profile of Orissa	48
Climate vulnerabilities and major disasters in Orissa.....	51
Vulnerability Index for the eastern coastal districts of India	53
The 2008 Orissa floods.....	55
Learning from Orissa Supercyclone	57
Conclusions	58
Chapter-V: Democratic Decentralisation in Orissa	61
Panchayati Raj in Orissa	62

Capacity of Gram Panchayat in ushering development	63
Disaster management legislation and PRIs	65
Conclusions	66
Chapter-VI: Adaptation & Gram Panchayats – field evidences.....	69
Climatic events in sample villages	69
Response to 2008 floods: relief and reconstruction	73
Adaptation measures post 2008-Flood	78
Relationship of PRI with other committees in the village	85
Chapter-VII: Conclusions and recommendations	88
References	99
Appendices	
Appendix-I: Definitional issues	i
Appendix-II: Exemplification of vulnerability	v
Appendix-III: Illustrative assessment of climate adaptation measures....	vii
Appendix-IV: Disaster management and PRIs	ix